



PATENT ABSTRACTS OF JAPAN

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(54) MANUFACTURE OF POLARIZED ELECTRODE FOR ELECTRIC DOUBLE-LAYER CAPACITOR

(57) Abstract:

PURPOSE: To make it possible to manufacture the title polarized electrode in long size continuously by a method wherein a polarized electrode is formed using the material obtained by dry-kneading activated charcoal powder, carbon black and some quantity of binder.

CONSTITUTION: Activated charcoal powder, carbon black and a binder are blended by weight ratio using a batch system compression grinding mill, dry-kneaded, sent to pressure-rolling machines 22a and 22b under constant pressure, processed into a sheet-form, formed into the prescribed thickness, and a pair of polarized electrodes 11a and 11b are formed by punching into a disc-shaped form. The electrodes 11a and 11b are housed in a metal case 12 and a metal cover 13, a separator 14 is interposed between the electrodes 11a and 11b, an organic electrolyte is impregnated, and an electric double-layer capacitor is formed by sealing the circumferential part of the metal case 12 and the metal cover 13 using a gasket 15. In this case, as a dry type kneading is used, a binder is dis-

persed uniformly in the activated charcoal powder and the like, the bonding strength of the binder, activated charcoal powder and the like is intensified by receiving the compressive force and shearing stress of the pressure rolling machines 22a and 22b, and the long-sized electrodes 11a and 11b can be manufactured continuously.

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